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Enclosed for filing is the utility patent application of **Stephen P. MORSE** for **SYSTEM AND METHOD FOR AUTOMATICALLY PRE-SETTING FORM FIELD VALUES.**

Also enclosed are:

- [X] 15 pages of Specification (not including title page);
- [X] 4 pages of Claims;
- [X] 1 page of Abstract;
- [X] 5 sheet(s) of [] formal [X] informal drawing(s);
- [X] an Assignment document;

The declaration of the inventor(s) [X] also is enclosed [] will follow.

The filing fee has been calculated as follows [] and in accordance with the enclosed preliminary amendment:

CLAIMS					
	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEE
Basic Application Fee					\$760.00
Total Claims	18	MINUS 20 =	0	x \$18.00	0.00
Independent Claims	4	MINUS 3 =	1	x \$78.00	\$ 78.00
If multiple dependent claims are presented, add \$260.00					0.00
Total Application Fee					\$838.00
If verified Statement claims small entity status is enclosed, subtract 50% of Total Application Fee					0.00
Add Assignment Recording Fee of \$40.00 if Assignment document is enclosed					40.00
TOTAL APPLICATION FEE DUE					\$878.00

Patent
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[X] A check in the amount of \$878.00 is enclosed for the fee due.

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This paper is submitted in triplicate.

Respectfully submitted,

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U.S. Patent Application

for

**SYSTEM AND METHOD FOR AUTOMATICALLY
PRE-SETTING FORM FIELD VALUES**

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Attorney Docket No.

013.0077

TITLE OF THE INVENTION

SYSTEM AND METHOD FOR AUTOMATICALLY PRE-SETTING FORM FIELD VALUES

5 BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to forms such as HTML based forms served and processed by Internet and World Wide Web (WWW) sites.

10 Description of the Related Art

The Internet is widely used as a means for conducting business, personal and commercial. In fact, Internet commerce has become increasingly popular as WWW sites are continually developed for every imaginable purpose. A standard technique for conducting business or otherwise communicating information over the Internet and WWW is the use of WWW site registration forms which may be filled in with necessary fielded information. The completion and submission of such a form is often required before goods and services may be accessed, sold, distributed, etc. Such forms serve as the mechanisms to automatically exchange information among trading partners, network users, etc. Most forms require standard information, such as name, address, etc. related to a network user or transaction. As such, an Internet user often must re-type the same information at different WWW sites. And, with increased Internet use, a significant amount of time is wasted typing field values over and over again while accessing WWW sites. This redundancy of data entry present problems that reduce network efficiency.

Very few techniques have been proposed to squarely address the aforementioned data redundancy problems associated with having to re-type or re-enter WWW site form field values. One such technique is to save the values from a specific WWW site so that if that exact form is revisited, then the information may be repeated. This technique is only

useful if a specific WWW site is used repeatedly and not useful for the wide use of different sites across the WWW.

Thus, there exists a need to provide new and improved systems and methods to facilitate form field entry that may be incorporated into 5 modern WWW sites, web browsers, etc. Such systems and methods must permit easy and efficient form field entry. To be viable, such systems and methods must be implemented without causing significant burdens to network infrastructures or undue increases in infrastructure costs.

10 **SUMMARY OF THE INVENTION**

In view of the foregoing comments regarding the related art, the principal object of the present invention is to solve the aforementioned problems.

It is another object of the present invention to provide a system and 15 method for pre-setting Internet forms that will alleviate the need to repeatedly type standard user information.

These and other objects of the present invention are achieved by providing a system for automatically pre-setting form values. This system includes a network access facility and a mapping facility. The network 20 facility is configured to access a network site, such as a WWW site, and receive a form including at least one field. The mapping facility is configured to map each field to a pre-determined value.

According to another aspect of the present invention, provided is a network client configured to facilitate automatic pre-setting of form fields. 25 The network client includes a network access facility, such as a browser, configured to access a network site to receive a form including at least one field, and a mapping facility configured to map each field to a pre-determined value.

According to another aspect of the present invention, provided is a 30 method for facilitating automatic pre-setting of form field values. The method includes the steps of accessing a network site to receive a form

with fields to be filled in, and mapping the field to be filled in to a pre-determined value.

And, according to another aspect of the present invention, provided is a system for automatically pre-setting form field values, that 5 includes a form facility that is configured to process a form with fields to be filled in or selected, and a mapping facility that is configured to map each field to a pre-determined value.

BRIEF DESCRIPTION OF THE DRAWING FIGURES

10 The present invention is described in detail below with regard to the attached drawing figures, of which:

FIG. 1A is a view of a Hyper-Text Markup-Language (HTML) form with fields to be filled in;

FIG. 1B is the HTML source code for the form depicted in FIG. 1A;

15 FIG. 1C is a view of an HTML form with a field to be selected;

FIG. 1D is the HTML source code for the form depicted in FIG. 1C;

FIG. 1E is a block diagram that depicts the design of a system for pre-setting form field values according to a preferred embodiment of the present invention;

20 FIG. 2 is a block diagram that illustrates an automatic data processing system which may be configured to facilitate automatic pre-setting of form field values according to a preferred embodiment of the present invention; and,

25 FIG. 3 is a flowchart that illustrates a method for automatically pre-setting form fields according to a preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention is now discussed with reference to the 30 drawing figures that were briefly described above. Unless otherwise

specified, like parts and processes are referred to with like reference numerals.

In the discussions that follow, the term:

"field name" is used as an identifying name referring to a form field
5 to be filled in or selected;

"schema" is used as an identifying name defining what a field name
actually represents;

"mapping" is used to identify a relationship from one value to
another value;

10 "pre-fill" defines when a form text field is filled in with a value;

"pre-select" defines when a form list item is selected;

"pre-setting" refers to the pre-filling or pre-selecting of a form field;

"field-to-schema mapping" is used to identify a relationship
between a form field name and a schema name;

15 "schema-to-value mapping" is used to identify a relationship
between a schema name and a value;

"URL-specific field-to-schema mapping" is used to identify a
relationship between the field name of a field on a specific WWW site form
and a schema name;

20 "generic field-to-schema mapping" is used to identify a relationship
between a field name commonly used across many WWW sites and a
schema name; and

25 "dynamic schema" is a schema name equal to the form field name
and is used to identify a form field name that has no URL specific or
generic field-to-schema mapping.

To illustrate salient features of the present invention, reference now
is made to an HTML form with fields to be filled in, which is depicted in
FIG. 1A. In particular, HTML Form 100 has a form section 102 that
contains fields to be filled in, 104 and 106. Such a form is generated by
30 the HTML source code described with regard to FIG. 1B. Form tags 108
and 110 delimit the form to be filled in, and the input tags 112 and 114

correspond to the fields in which a user may enter values. Such input tags may be mapped to a schema forming the field-to-schema mapping. Once a user inputs data into fields, the values may be mapped to a schema to form a schema-to-value mapping. Labels 116 and 118
5 correspond to the field labels displayed on the form. Such labels may also be mapped to schemas forming field-to-schema mappings.

Similarly, FIG. 1C depicts an HTML form with fields that are configured for multiple option selection (e.g. a pull-down box). In particular, HTML form 120 has a form section 122 that contains a field 124
10 to be selected and a field label 126. This form is generated by the HTML source code described with regard to FIG. 1D. Form tags 123 and 125 delimit the form to be filled in, and the select tags 138 and 141 delimit the list from which values may be selected. Options 130, 132, 134, and 136
15 represent the entries in the list to be selected. The values of each option are delimited by option tags 140 and 142. Once a value is selected, the value may be mapped to a schema to form a schema-to-value mapping. For example, the field name 128 corresponds to the field to be selected
20 and may be mapped to a schema to form the field-to-schema mapping. The field label 144 corresponds to the field label displayed on the form and may also be mapped to a schema to form another field-to-schema mapping.

The descriptions presented above address forms to be filled in and their corresponding parts. Such forms are generally filled in by a user. Data redundancy problems associated with having to re-type or re-enter
25 form field values are squarely addressed by the present invention. In particular, a system for automatically pre-setting form field values is depicted in block diagram FIG. 1E.

Referring now to FIG 1E, a user agent or browser 146 is configured to access a network such as the Internet and World Wide Web 144 so that
30 it may send and receive forms to be filled in. In particular, FIG. 1E also includes an object 154 encircled by a phantom line that is intended to

identify a logical arrangement of facilities that carry out certain functions as described herein. Such facilities may be implemented using network resources such as servers or other automatic data processing system(s). Such facilities may be implemented using a server system configured with appropriate hardware and/or software sub-systems.

The user agent 146 receives a forms and performs a semantic interpretation of the form and identifies the fields to be filled in. This may be done by associating a field name with each form field to be filled in. For example, as with the HTML form shown in FIG. 1A and the source code described in FIG. 1B, input tags 112 and 114 could be used as field names.

Once fields are determined, the user agent 146 accesses URL-specific field-to-schema mapping facility 150 to obtain the schemas for each field to be filled in. For example, using the HTML shown in FIG. 1B and using the input tags 112 and 114 as the field names, the following could be the URL-specific field-to-schema mapping:

ac -> phone.area
pc -> address.zip

20

If no URL-specific field-to-schema mapping exists for a field, the user agent 146 accesses the generic field-to-schema mapping facility 148 to obtain the schema name for the field. For example, a large number of WWW sites may use "area" and "zip" as field names. In this case the generic field-to-schema mapping would be:

area -> phone.area
zip -> address.zip

30 If no schema name exists in generic field-to-schema mapping facility 148 for the field, user agent 146 can be configured to assign the

field name as the schema name, which is called a dynamic schema. For example, if an unexpected field name of "shoesize" is encountered, it will be assumed to correspond to a schema name of "shoesize." If this is the first time "shoesize" is encountered, there will be no schema-to-value mapping for it, and the corresponding field will not be pre-set. But, when the user submits the form, the user agent 146 may be configured to update the user's schema-to-value mapping based on the submitted form as follows:

10 shoesize -> 9 1/2

The next time the user encounters "shoesize", the field may be pre-set.

Next, user agent 146 accesses the user schema-to-value mapping facility 152 to obtain the values for each schema identified. Such schema-to-value mappings are specific to a particular user. Using the above examples, a user's schema-to-value mapping could be:

phone.area -> 415

address.zip -> 94109

20

Such values can then be used to pre-set a form field. However, certain schema names may have values that result from a concatenation of other values. For example, the following schema names could correspond to field names at certain WWW sites:

25

name.first

name.middle

name.last

Furthermore, other WWW sites might not look for a name to be broken down, but instead request a user's full name. The schema name for this WWW site might be:

5 name.all

Thus, a concatenation rule might exist for the full name as follows:

name.all = name.first + name.middle + name.last.

10

If a concatenation rule exists, the user agent 146 concatenates the values obtained from the schema-to-value mapping facilities 152 accordingly.

15

Next, user agent 146 uses the values obtained to pre-select or pre-fill the associated form fields. There is a notable difference between pre-filling a value and pre-selecting a list value. When pre-filling a form field, the set of values that can be placed in the field is unconstrained, whereas when pre-selecting the set of values for a list is constrained to be one of those defined by the form. For example, the source code in FIG. 1D has a list constrained to options 130, 132, 134, and 136 ("United States","England","France", and "Germany"). If the schema-to-value mapping gave any other value, the list cannot be pre-selected. The chances of being able to pre-select a value are increased if there are additional values associated with each list entry. For example, the option 20 "England" may also have been written in HTML as:

25

```
<option value="UK">England</option>
```

30

A schema-to-value mapping referencing "UK" or "England" would facilitate pre-selecting the field. Another way to increase the chances of pre-selecting a list value is to have synonymous values in the schema-to-

value mapping. For example, the values "US" or United States" could be synonyms for the value "USA".

Other problems exist with pre-setting form fields. Certain forms may contain fields that ask for the user passwords. Such fields are readily
5 distinguished from non-password fields because they contain the password attribute. Several reasons make it unwise to pre-set
passwords. A user may have different passwords for each WWW site. If
a wrong value is used, the user won't know it's the wrong value because
passwords are usually hidden or encrypted when entered. And, if the
10 form is submitted with an incorrect password, the WWW site will receive
the user's secret password for some other WWW site. Accordingly, user
agent 146 could be configured to not pre-set fields with the password
attribute.

Another problem encountered could be hidden fields. A hostile
15 WWW site may hide pre-fillable fields to obtain user information. Since
the field is hidden, the user would not notice or be otherwise aware that
the hidden field was being pre-set. One way of preventing any such
unwanted disclosures of information is to configure the user agent 146 to
require the user to "touch" every form field that is to be pre-set. Another
20 solution is to configure user agent 146 to provide a pop up list of all the
values that would be pre-set and request the user's OK before pre-setting
the form fields.

Another problem associated with the automatic pre-setting of form
fields is that many WWW sites are in different languages. Although the
25 ideas here depend on specific text strings, all strings are contained in
mapping facilities 148, 150 and 152 and none are hard coded into user
agent 146. The mapping facilities 148, 150 and 152 may be configured to
be table driven, with separate mapping tables supporting different
languages.

30 The mapping facilities 148, 150, and 152 are configured to be
accessed via the Internet or WWW. It is noted that the mapping facilities

148, 150 and 152 and the user agent 146 could be placed on a server or network configured so that the user agent 146 may obtain access to the mapping facilities 148, 150 and 152. It is further noted that the user agent 146 could be any well known web browser software package such as the

5 Netscape Communicator Suite of client products (e.g., web browser, mail client, etc.) which is manufactured and marketed by NETSCAPE COMMUNICATIONS CORP., and which may be configured as such to receive a form to be filled in. It is also noted that user agent 146 could be a plug-in configured to receive a form to be filled in. It is also noted that

10 figures 1A through 1D describe HTML forms to be filled in, however the present invention could be used to fill in other kinds of forms, including but not limited to Visual Basic and SQL*Windows forms.

Referring now to FIG 2., depicted therein is a block diagram of an automatic data processing system (ADP) which may be configured to facilitate the automatic pre-setting of form field values in accordance with the present invention. In particular, ADP 201, such as a personal computer, includes a processor arrangement 202, a data storage subsystem 205, and an input and output device 204 capable of receiving and sending forms to be filled in, such as those served by a WWW site via the Internet. Additionally, ADP 201 also may include multi-media input and output devices 203, such as speakers, CD ROM inputs, printers, etc. ADP 201 may be configured to run a network client, user agent or other network content manifestation application which supports form entry. As mentioned above, such an application could be the Netscape Communicator Suite of client products.

Referring now to FIG. 3, depicted therein is a flowchart that illustrates a method for automatically pre-setting form fields according to a preferred embodiment of the present invention. Processing begins at step S3-1 and immediately proceeds to step S3-2. At step S3-2, the user agent receives a form with at least one field to be filled in and performs a semantic interpretation of form fields. This may be done by associating a

field name, with each form field to be filled in. For example, as with the HTML form shown in FIG. 1A and the source code described in FIG. 1B, input tags 112 and 114 could be used as field names.

Next at step S3-3, a loop is performed for each field interpreted in
5 step S3-2. The steps that proceed to the end of the loop S3-11 shall be repeated for each interpreted field. Step S3-3 proceeds immediately to step S3-4.

At step S3-4, the field name from step S3-2 is compared against a URL Specific field-to-schema mapping. For example, using the HTML
10 from FIG 1B and using the input tags 112 and 114 as the field names, the following could be the URL-specific field-to-schema mapping:

ac -> phone.area
pc -> address.zip

15 If a URL-specific field-to-schema mapping exists for the current field, the next step is step S3-6, otherwise the next step is step S3-5.

At step S3-5, the field name is compared against a generic field-to-schema mapping. For example, a large number of WWW sites may use
20 "area" and "zip" as field names. In this case the generic field-to-schema mapping would be:

area -> phone.area
zip -> address.zip

25 If there exists a generic field-to-schema mapping for the current field, the next step is S3-6, otherwise the next step is S3-13.

At step S3-6, the schema name from the previous step, either the URL-specific field-to-schema mapping from step S3-4 or the generic field-to-schema mapping from step S3-5, is used The next step is step S3-7.
30

Before proceeding to step S3-7, step S3-13 must be described. At step S3-13, the field name is assumed to be the schema name since no URL-specific or generic field-to-schema mapping exists. This is called a dynamic schema. For example, if an unexpected field name of "shoesize" 5 is encountered, it will be assumed to correspond to a schema name of "shoesize." If this is the first time "shoesize" is encountered, there will be no schema-to-value mapping for it, and the corresponding field will not be pre-set. But, when the user submits the form, the user's schema-to-value mapping may be updated at this step based on the submitted form as 10 follows:

shoesize -> 9 1/2

Processing and operations then proceed to step S3-7.

15 Now that the field has been given a schema, values can be associated to the field to be filled in. At step S3-7, the value to be filled in is obtained from the schema-to-value mapping. Such a mapping is specific to a particular user. Using the above examples, a users schema-to-value mapping could be:

20
 phone.area -> 415
 address.zip -> 94109

If no value is found, the value alternatively may be obtained as a 25 concatenation of other values. For example, the following schema names could correspond to field names at certain WWW sites:

name.first
name.middle
30 name.last

Furthermore, other WWW sites might not look for a name to be broken down, but instead look for the user's full name. The schema name for this WWW site might be:

5 name.all

Thus, a concatenation rule might exist for the fullname as follows:

name.all = name.first + name.middle + name.last.

10

The next step is step S3-8-1. If a value was obtained at step S3-7, the process continues at S3-10. Otherwise, the next step is step S3-8-2.

15 At step S3-8, it is determined whether a concatenation rule exists. If a concatenation rule exists, the process proceeds to step S3-9, otherwise the process proceeds to step S3-10.

At step S3-9, the values are concatenated based on the concatenation rule determined at step S3-8. The process then proceeds to step S3-10.

20 At step S3-10, the field is now ready to be filled in with the values from the preceding steps. The form field is filled in, either pre-filled or pre-selected, and then the process moves to step S3-11, the end of the loop.

25 There is a notable difference between pre-filling a value and pre-selecting a list value. When pre-filling a form field, the set of values that can be placed in the field are unconstrained, whereas the set of values for a list is constrained to be one of those defined by the form. For example, the source code in FIG. 1D has a list constrained to options 130, 132, 134, and 136 ("United States", "England", "France", and "Germany"). If the schema-to-value mapping gave any other value, the list cannot be pre-selected. The chances of being able to pre-select a value are increased if 30 there are additional values associated with each list entry. For example, the option "England" may also have been written in HTML as:

<option value="UK">England</option>

A schema-to-value mapping referencing "UK" or "England" would facilitate
5 pre-selecting the field. Another way to increase the chances of pre-selecting a list value is to have synonymous values in the schema-to-value mapping. For example, the values "US" or United States" could be synonyms for the value "USA".

Other problems exist with pre-setting form fields. Certain forms
10 contain fields that ask for the user's password. Such fields are readily distinguished from non-password fields because they contain the password attribute. Several reasons make it unwise to pre-set passwords. A user may have different passwords for each WWW site. If
15 a wrong value is used, the user won't know it's the wrong value because passwords are usually hidden when entered. And, if the form is submitted with an incorrect password, the site will receive the user's secret password for some other site. Accordingly, password fields could be skipped.

Another problem could be hidden fields. A hostile WWW site may
20 hide pre-fillable fields to obtain user information. Since the field is hidden, the user would not notice or be otherwise aware that the hidden field was being pre-set. One way of preventing any unwanted disclosure of information is to skip hidden fields. Another solution is to provide a pop up list of all the values that would be pre-set and request the user's OK
25 before pre-setting the form fields.

Another problem is that many WWW sites are in different languages. Although the ideas here depend on specific text strings, all strings are contained in the mappings. Therefore, the URL-specific and generic field-to-schema mappings and the value-to-schema mappings
30 could be table driven and populated to support multiple languages.

At step S3-11, the process will loop back to step 3-3 so long as there remain form fields to be filled in. If there are no more fields, then the process will end at step S3-12.

The process steps illustrated in FIG. 3 which were described above 5 could be modified to fill in fields on varied or more complex forms. The programming constructs necessary to bring about the operations and resultant functionality depicted in FIG. 3 will be readily understood by those skilled in the art of modern computer programming.

Thus, having fully described the present invention by way of 10 example with reference to the attached drawing figures, it will be readily appreciated that many changes and modifications may be made to the invention and to any of the exemplary embodiments shown and/or described herein without departing from the spirit or scope of the invention which is defined in the appended claims.

CLAIMS

What is claimed is:

- 1 1. A system for automatically pre-setting form field values, comprising:
 - 2 a network access facility configured to access a network site to
 - 3 receive a form including at least one field; and
 - 4 a mapping facility configured to map said field to a pre-determined
 - 5 value.
- 1 2. The system according to claim 1, wherein said network access
- 2 facility is an Internet content browser client.
- 1 3. The system according to claim 1, wherein said network site is a world
- 2 wide web site and said form is a hyper-text mark-up language form.
- 1 4. The system according to claim 1, wherein said network access facility
- 2 is an Internet content browser client plug-in working in conjunction with
- 3 an Internet content browser client.
- 1 5. The system according to claim 1, wherein said mapping facility further
- 2 comprises:
 - 3 a field-to-schema mapping facility configured to map said at least
 - 4 one field to a schema; and
 - 5 a schema-to-value mapping facility configured to map said schema
 - 6 to a value.
- 1 6. The system according to claim 5, wherein said field-to-schema
- 2 mapping facility further comprises:
 - 3 a uniform resource locator specific field-to-schema mapping facility
 - 4 configured to map said at least one field to a schema for a specific world
 - 5 wide web site; and,
 - 6 a generic field-to-schema mapping facility configured to map said
 - 7 at least one field to a generic schema.

1 7. A network client configured to facilitate automatic pre-setting of form
2 field values, comprising:

3 a network access facility configured to access a network site to
4 receive a form including at least one field; and

5 a mapping facility configured to map said field to a pre-determined
6 value.

1 8. The network client according to claim 7, wherein said network site is a
2 world wide web site and said form is a hyper-text mark-up language
3 form.

1 9. The network client according to claim 7, wherein said mapping facility
2 further comprises:

3 a field-to-schema mapping configured to map said at least one field
4 to a schema; and

5 a schema-to-value mapping configured to map said schema to a
6 value.

1 10. The network client according to claim 9, wherein said mapping facility
2 further comprises:

3 a uniform resource locator specific field-to-schema mapping facility
4 configured to map said at least one field to a schema for a specific world
5 wide web site; and

6 a generic field-to-schema mapping facility configured to map said
7 at least one field to a generic schema.

1 11. A method for facilitating automatic pre-setting of form field values,
2 comprising the steps of:

3 accessing a network site;

4 receiving a form from said network site, said form including at least
5 one field to be filled in; and

6 mapping said field to be filled in to a pre-determined value.

1 12. The method according to claim 11, wherein said network site is a world
2 wide web site and said form is a hyper-text mark-up language form.

1 13. The method according to claim 11, wherein said mapping step further
2 comprises the steps of:
3 mapping said field to a schema, and
4 mapping said schema to a value.

1 14. The method according to claim 13, wherein said mapping step further
2 comprises the steps of:
3 mapping said at least one field to one of a uniform resource locator
4 specific schema or a generic schema.

1 15. A system for automatically pre-setting form field values, comprising:
2 a form facility configured to process a form including at least one
3 field; and
4 a mapping facility configured to map said at least one field to a pre-
5 determined value.

1 16. The system according to claim 15, wherein said form is a graphical
2 user interface form.

1 17. The system according to claim 15, wherein said mapping facility further
2 comprises:
3 a field-to-schema mapping configured to map said at least one field
4 to a schema; and
5 a schema-to-value mapping configured to map said schema to a
6 value.

1 18. The system according to claim 17, wherein said field-to-schema facility
2 further comprises:
3 an application specific field-to-schema mapping facility configured
4 to map said at least one field to a schema for a specific application; and

5 a generic field-to-schema mapping facility configured to map said
6 at least one field to a generic schema.

ABSTRACT OF THE DISCLOSURE

A system and method for automatically pre-setting values in a form such as an HTML based form received via a network such as the Internet and World Wide Web, includes a network access facility that is configured to access a network and receive a form, and a mapping facility that is configured to map the fields on the form to one or more predetermined values.

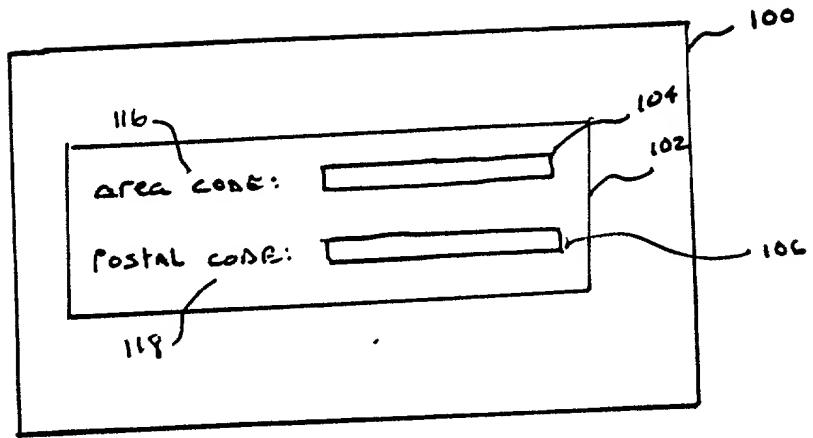


FIG. 1A

108 ~ <form> 116
 area code: <input name = "ac">
 112
 postal code: <input name = "pc">

 110 ~ </form> 118 114

FIG. 1B

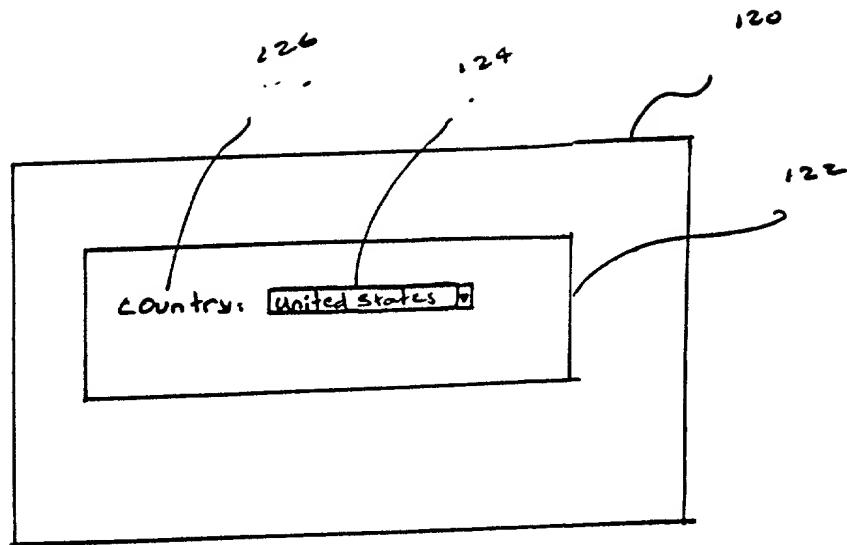
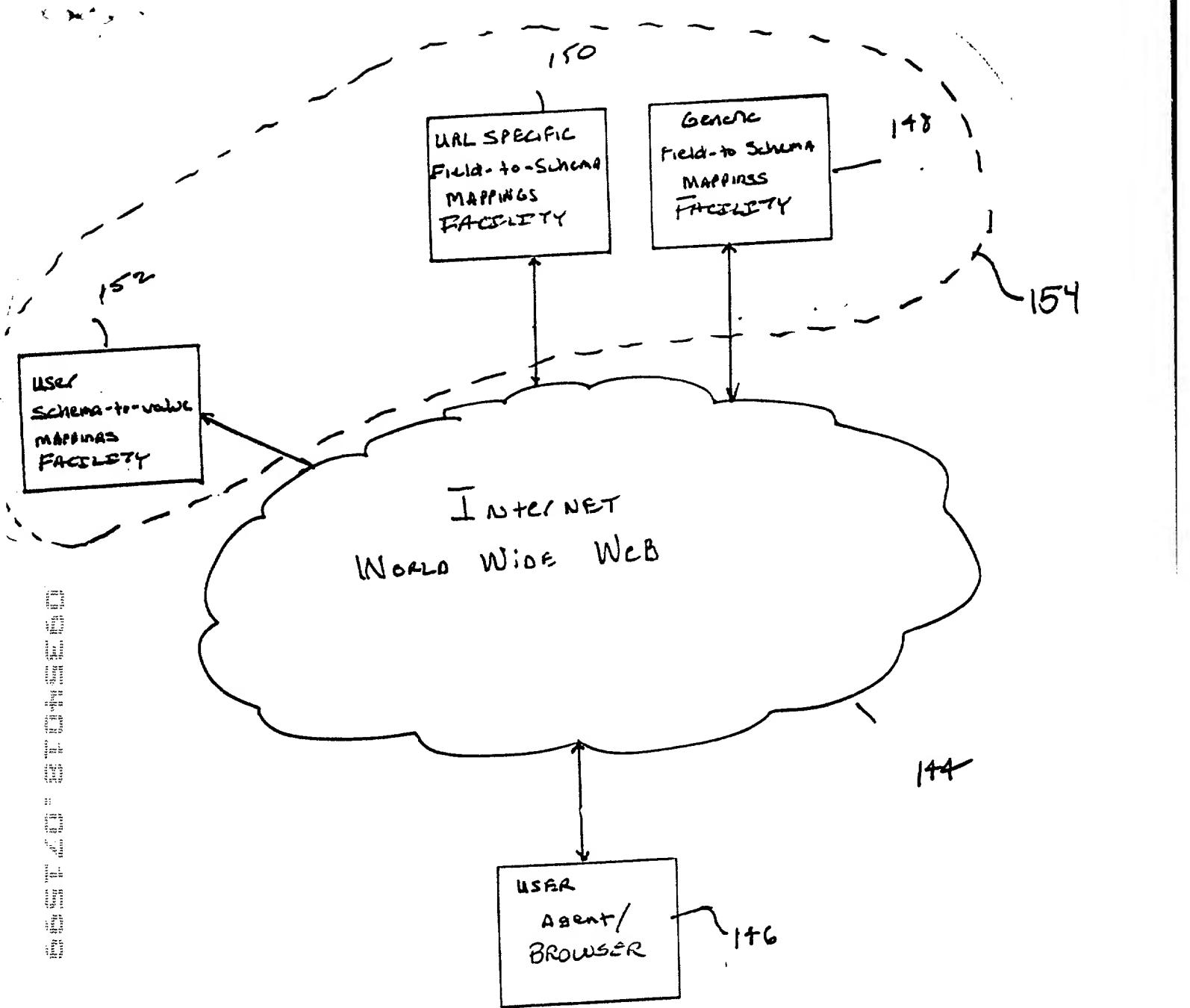


Fig. 1C

```

125 ~ form? country:
144
128 <select name="region"> 130
138   <option> United States </option> 142
140   <option> England </option> 132
        <option> France </option> 134
        <option> Germany </option> 136
141 ~ /select>
125 </form>
    
```

Fig. 1D



PILURE 1E

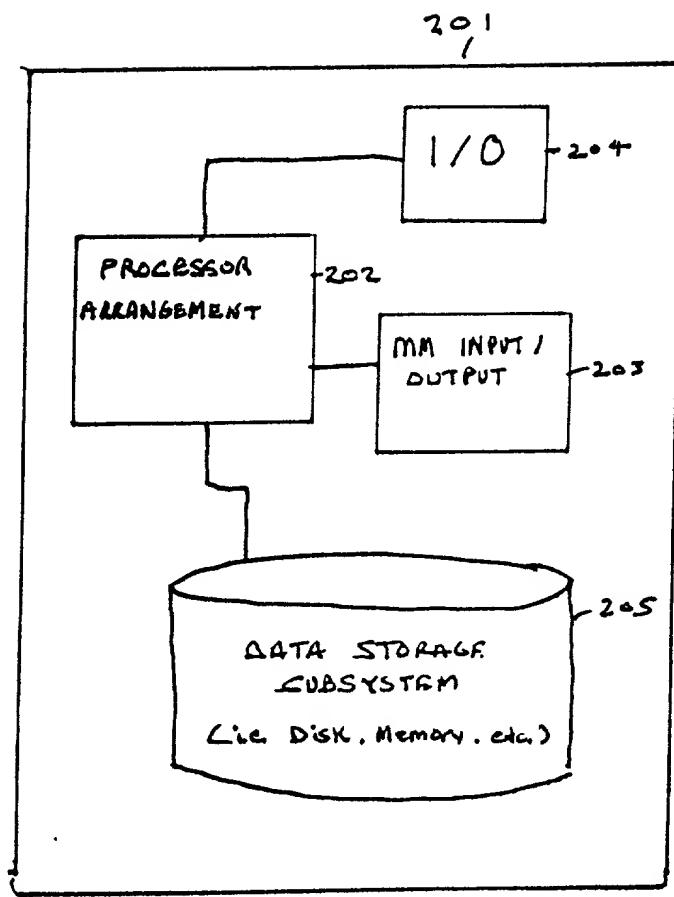


FIGURE 2

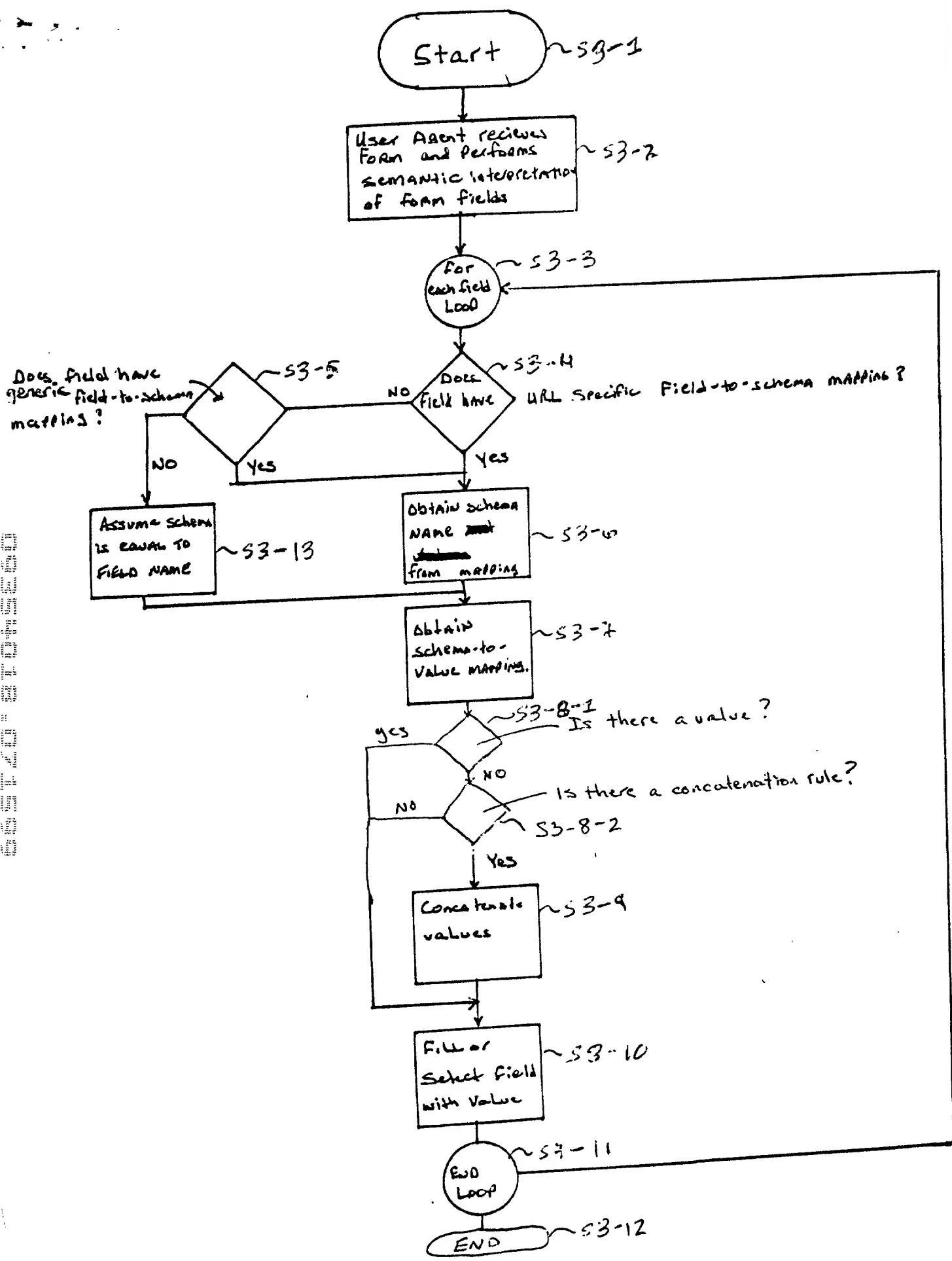


FIGURE 3

DECLARATION FOR UTILITY PATENT APPLICATION

Attorney Docket No.: 013.0077

First Named Inventor: Stephen P. MORSE

Title of the Application: SYSTEM AND METHOD FOR AUTOMATICALLY PRE-SETTING FORM FIELD VALUES

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention which is entitled:

SYSTEM AND METHOD FOR AUTOMATICALLY PRE-SETTING FORM FIELD VALUES

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

Acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of the Federal Regulations, section 1.56.

As a named inventor, I hereby appoint the following registered practitioner to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Erik B. Cherdak
Reg. No. 39,936

Please direct all correspondence to:

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(301) 990-7700
FAX (301) 527-0586

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole Inventor: Stephen P. MORSE
Inventor's Signature: *Stephen P. Morse* Date: *July 9, 1999*
Residence City: San Francisco State: CA Country: USA Citizenship: USA
Post Office Address: 1313 Lombard Street, San Francisco, CA 94109

Is an ADDITIONAL INVENTOR'S FORM attached? Y__ N_X__